KALEJA GmbH
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# Motor-speed control for brush sticking direct current motor 24VDC

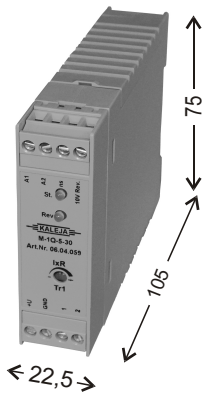
## Implementation for switching current up to 1A

## With change of rotation

## Galvanic isolation between input and output

## To snap onto DIN - rail EN 50022 and EN 50035

## Construction width: 22,5mm




| Short designation / type | Rated voltage: 24VDC<br>M-MWI-1-30 |
|---|---|
| **Art. - No.** | **06.04.049** |
| **Technical data: input circuit** | |
| Rated voltage / threshold voltage | 24 VDC |
| Range of rated voltage min. / max. | 15V to 35VDC |
| Input current during rated voltage | 10mA |
| Status indicator | LED 3mm yellow |
| **Technical data: output circuit** | **MOS-FET** |
| Range of switching voltage / motor voltage | 19V to 35VDC |
| Max. permanent load current | 1A |
| Impulse current | 10A |
| Switching frequency | 50 Hz by 1A |
| Current sensing by short- circuit | 95A |
| Switch- off time after short - circuit | 80 - 400µs |
| **Other data** | |
| Ambient temperature range | -20°C to + 50°C |
| Case | plastic IP20 |
| Absence of vibration a/r (10...500Hz) | > 20 / 5 |
| Overload protection / short-circuit-proof / temperature monitoring | Yes / Yes / Yes |
| DIN VDE-determinations | VDE 0110, 0160 in parts |
| Position of installation | can be snapped, addable |
| Mode of connection: screw terminal | single wire 4mm², fine wire 2,5mm² |
| Dimensions: W x D x H | 22,5mm x 75mm x 105mm |

# Description

When blocking the control safe the motor for incorrect high current. If the motor current rise over the set Value ( Tr1 ), the control switch off the motor with dynamical braking.
By that at run-up of the Motor the Current Evaluation don´t respond, is a temporal adjustable fade-out function ( Tr2 ) of protection during that time active.
Rise at operation the Motor current over the setting Value, the Motor will switch-off and stay suspended till the next RESET. The Message Output ( I - OUT ) will set on HIGH (+VCC) . LED red ( ERR ) lightning.
RESET-functions: - LOW (0V) at inputs A1 and A2
- HIGH (+VCC) at input A3

**Block diagram**